

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Reum Corporation
Attn: Steffen Heinecke
3600 Sunset Avenue
Waukegan, Illinois 60087

Application No.: 04060099

I.D. No.: 097190ADF

Applicant's Designation:

Date Received: June 30, 2004

Subject: Electronic Components Manufacturing Plant

Date Issued: April 8, 2005

Expiration Date: April 8, 2010

Location: 3600 Sunset Avenue, Waukegan

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of two automotive button painting lines each comprised of three paint booths controlled by filters and curing oven, plastic molding operations, pad printing operations and paint burn-off oven pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. Two coating lines are subject to the volatile organic materials (VOM) emission limitations of 35 Ill. Adm. Code 218.204(n)(1)(A)(i) and (ii). The VOM content of the coatings, as applied, shall not exceed 4.1 and 3.8 lb of VOM per gallon of coating, respectively, excluding water and any compounds which are specifically exempted from the definition of VOM.
2. The VOM emissions from two coating lines shall not exceed 2.0 tons/mo and 20.0 tons/yr. The VOM emissions shall be calculated using the following equation:

$$E = \sum (P_i \times C_i) / 2,000$$

Where:

E - VOM emissions (tons)

P_i - Coating and solvent usage (gal)

C_i - VOM content of coating and solvent used (lb/gal)

These limits are based on the maximum production rate. Compliance with annual limits shall be determined from a running total of 12 months of data.

3. This permit is issued based on negligible emissions of volatile organic material from the plastic molding and pad printing operations. For this purpose, emissions from each emission source, shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.

4. Operation and emissions of the two boilers (combined) shall not exceed the following limits:

Natural Gas Usage: 4.0 mmscf/mo, 40.0 mmscf/yr

<u>Pollutant</u>	<u>Emission Factor (lb/mmscf)</u>	<u>Emissions</u>	
		<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
Nitrogen Oxides (NO _x)	100	0.2	2.0
Carbon Monoxide (CO)	84	0.2	1.7
Volatile Organic Materials (VOM)	5.5	---	0.1

These limits are based on the maximum operating rate and standard emission factors given by AP-42. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.

5. The operations and particulate matter (PM) emission from two paint lines shall not exceed the following limits:

<u>Paint Usage</u>		<u>Solids Content (Wt.%)</u>	<u>Overspray (%)</u>	<u>Control Efficiency (%)</u>	<u>PM Emissions</u>	
<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>				<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
11.0	110.0	40	75	95	0.2	1.7

These limits are based on the maximum production rate. Compliance with annual limits shall be determined from a running total of 12 months of data.

6. This permit is issued based on negligible emissions of particular matter from the paint burn-off oven. For this purpose, emission shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
7. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a Clean Air Act Permit Program permit from the Illinois EPA.
8. The Permittee shall maintain records of the following information for each coating line:
 - a. The name and identification number of each coating as applied each day;
 - b. The weight of VOM per volume of each coating (minus water and exempt compounds which are specifically exempted from the definition of VOM) as applied;

- c. Coating and clean-up solvent usage (gal/month and gal/yr);
 - d. Coating and clean-up solvent VOM and HAP content (lb/gal;
 - e. Natural gas usage (mmscf/mo and mmscf/yr); and
 - f. VOM and HAP emissions with supporting calculations (ton/mo and lb/yr).
9. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.
10. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
11. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

If you have any questions on this permit, please contact Valeriy Brodsky at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

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cc: Illinois EPA, FOS Region 1
Lotus Notes

Attachment A-Emissions Summary

This attachment provides a summary of the maximum emission from the electronic components manufacturing plant, operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are below the levels, 25 tons per year of VOM, 10 tons per year of a single HAP and 25 tons per year of combined HAPs at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that material is handled, coatings used and control measures are more effective than in this permit.

<u>Emission Units</u>	E M I S S I O N S (Tons/Year)					
	<u>VOM</u>	<u>NO_x</u>	<u>CO</u>	<u>PM</u>	<u>Single HAP</u>	<u>Total HAP</u>
Two Paint Lines	20.0			1.7	<10	<25
Molding Operations	0.44					
Printing Operations	0.44					
Paint Burn-Off Oven				0.44		
Gas-Fired Equipment	<u>0.1</u>	<u>2.0</u>	<u>1.7</u>			
Totals:	21.0	2.0	1.7	2.1	<10	<25

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